

# PATENT ABSTRACTS OF JAPAN

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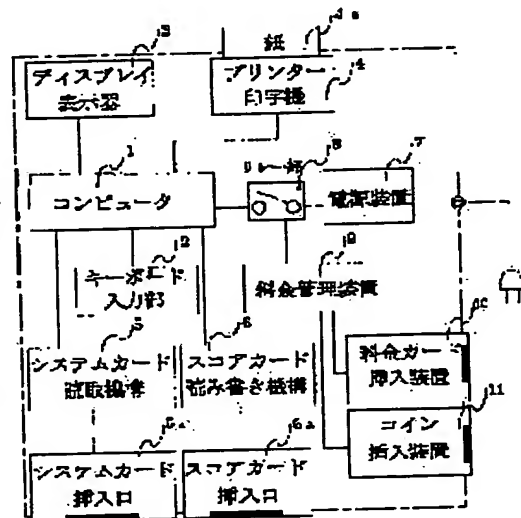
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## (54) GOLF SCORE REGISTRATION SYSTEM DEVICE

### (57)Abstract:

**PURPOSE:** To release a golfer from a complicated score calculation, record the golf score by an IC card to make a data base, and take out the totalization, analysis and retrieval of the score data with a simple operation as a reference for golf progress.

**CONSTITUTION:** When a score card insert hole 6a is inserted to a golf score registration system device, and a coil or rate card is also inserted, the device is laid in the usable state. A play score is registered as a data base only by inputting the play score on the basis of the instruction displayed on a display indicator 3 after inputting an individual secret number. When required, various data or data analysis result are displayed on the display indicator 3 or printed out by a printer printing machine 4 to take out materials for self score up. A complicated calculation such as official handicap or order calculation can be easily performed and displayed.



## LEGAL STATUS

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[0011] Fig. 7 is a flowchart of Step D in the entire flowchart of Fig. 3. Use of database will be explained. In Step 22, it is determined whether or not a database is used. If a database is used, a YES button shown on a display 3 is pressed to proceed to Step 23 of data calculation. In Step 23, data is calculated. As items, such as a par ratio, a greens in regulation ratio, a par saving ratio, a birdie ratio, a double-bogey ratio, a double-bogey ratio, a triple or more bogey ratio and soon, are shown on the display in Step 24, by pressing a button of an item desired to be calculated, recorded data is calculated and a calculation result is displayed. Also, if score data in a particular golf course is required, a YES button of Step 25, in which it is determined whether or not score data in a golf course is required. is pressed to proceed to Step 28. In Step 28, a number is input into a predetermined frame by a keyboard according to instructions on a display. By inputting a predetermined number corresponding to the golf course, score data of the golf course can be displayed. In Step 26, it is determined whether or not score data of a golf round is required. Data of a required round number is calculated among the data in the past and shown on the display 3, so as to be used as a reference material. In Step 27, it is determined whether or not score date of a golf round data is required. Data of required date can be used, similar to Step 26. In Step 29, it is determined whether or not average score graph indication is required. Various data such as an average score, an average number of bunker shots of a desired golf course can be shown on the display 3, as mentioned above. If a YES button is pressed in Step 29, in

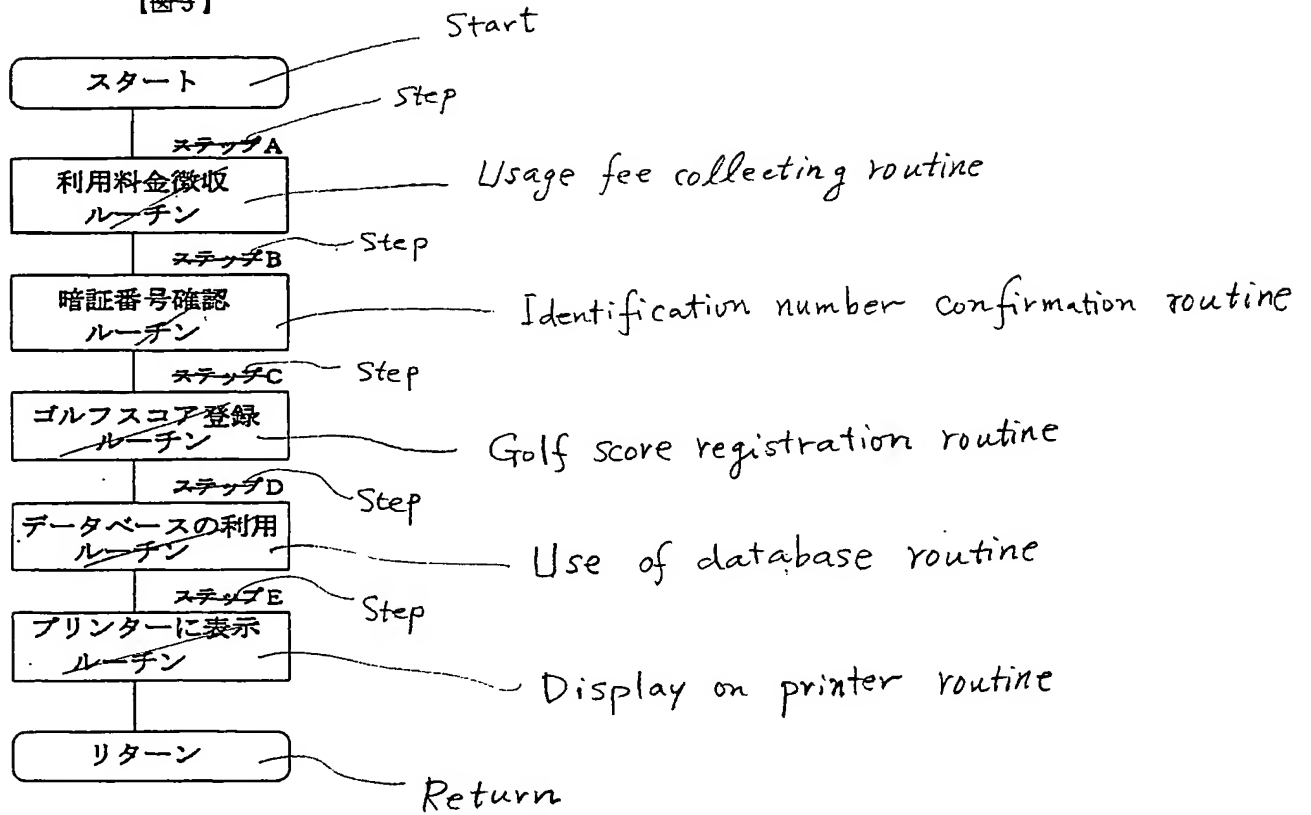
Step 30, in which a graph is indicated on a display, the data can be shown by an appropriate graph such as a bar graph, a circle graph, a histogram, etc. In Step 31, it is determined whether or not graph indication of average putt number is required. An average putt number and a graph thereof can be shown, if necessary, by pressing a YES button, similar to the above. Accordingly, a technical advice based on the analyzed data can be visually displayed and can be used for improving a score.

[0012] Fig. 8 is a flowchart of Step E in the entire flowchart of Fig. 3. The step is for printing various data shown on the display 3 onto a paper 4a by using a printer 4. In Step 33, it is determined whether or not output to a printer is required. In Step 34, if a YES button is pressed for an item among items of the displayed data, such as a par ratio, a greens in regulation ratio, a par saving ratio, a birdie ratio, a double-bogey ratio, a double-bogey ratio, a triple or more bogey ratio, and so on, that is, the data shown on the display 3 in the "use of database" in Fig. 7, data of the item can be outputted to a printer and printed on a paper 4a, in Step 39. In Step 35, it is determined whether or not score transition graph is required. If YES button is pressed, a future score can be predicted from the past data and printed by the printer. In Step 36, it is determined whether or not handicap data is required. YES buttons for various handicaps, such as the official handicap, the new Perrier handicap, a private handicap and so on, can be selected to print the data. In Step 37, it is determined whether or not ranking in a competition is required. If data of each member has been

registered, ranking can be immediately calculated and printed, even for a competition hosted by a company and having many participants, only by pressing the YES button therefor. In Step 38, it is determined whether or not technical advice based on analyzed data is required. If a YES button is pressed for this, various analyzed result can be obtained from the past data, and a technical advice suitable for a level of an individual can be displayed and printed. Accordingly, by using this apparatus, degree of improvement, transition of scores, transition of the number of putts and so on can be shown in an easily understandable graph, a weak point which should be overcome for improvement can be visually shown and obviously understood, and information necessary for improving score can be provided.

Fig. 3

【図3】



START

[ Fig. 7 ]

【図 7】

Step 24

Shown on display

Par ratio

Greens in regulation ratio

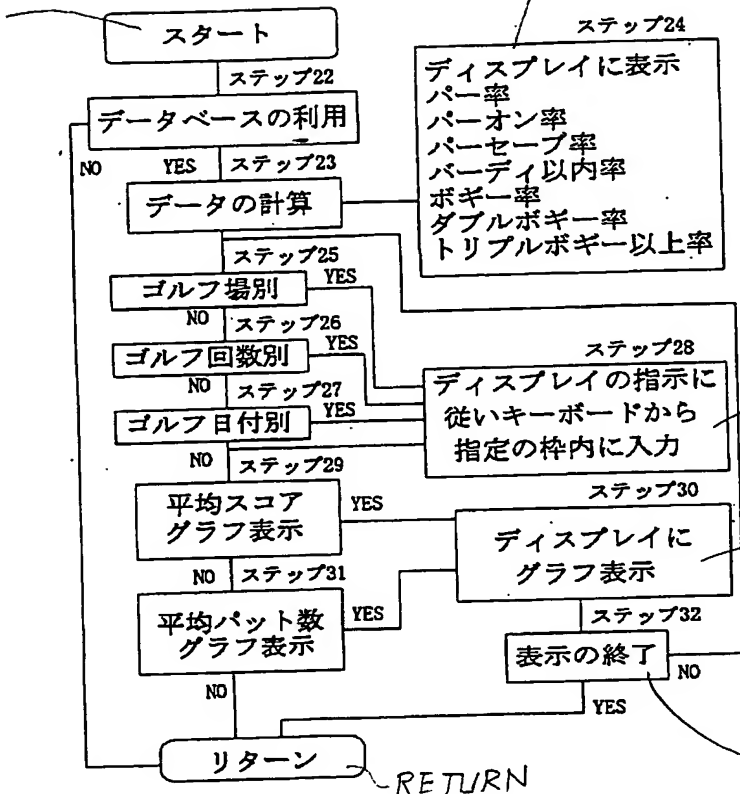
Par saving ratio

Birdie or better ratio

Bogey ratio

Double-bogey ratio

Triple or more bogey ratio



Input to a predetermined frame by a keyboard according to instruction on a display

Graph Indication on display

End of indication

Start

Step 22 Use of database

Step 23 Data calculation

Step 25 By golf course

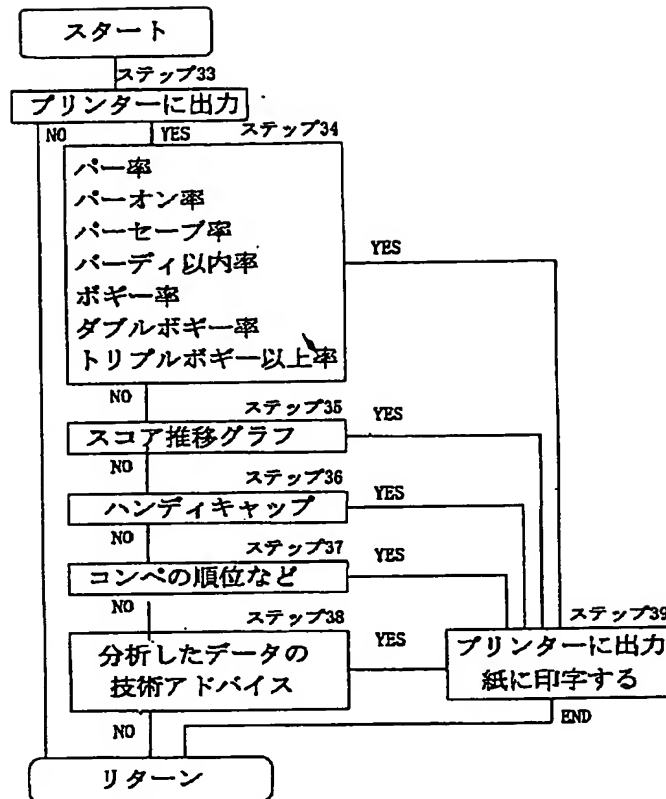
Step 26 By round number

Step 27 By round date

Step 29 Graph indication of average score

Step 31 Graph indication of average putt number

【図8】



[Fig. 8]

Start

Step 33 Output to printer

Step 34 Par ratio

Greens in regulation ratio

Par saving ratio

Birdie or better ratio

Bogey ratio

Double-bogey ratio

Triple or more bogey ratio

Step 35 Score transition graph

Step 36 Handicap

Step 37 Ranking in competition, etc.

Step 38 Technical advice for analyzed data

Step 39 Output to printer; Print on paper

Return